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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/700,585	02/02/2001	Mikko Lipsanen	027566-021	7249
27045	7590	11/01/2005	EXAMINER	
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR C11 PLANO, TX 75024			FERGUSON, KEITH	
			ART UNIT	PAPER NUMBER
			2683	

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/700,585	LIPSANEN ET AL.
	Examiner	Art Unit
	Keith T. Ferguson	2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 04 October 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-9 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-9 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

2. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1,6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rainey et al. in view of Chapman et al., newly recited reference..

Regarding claim 1, Rainey et al. discloses a method of providing information (accounting information) relating to a telecommunication call in a telecommunication network to a data storage system (central automatic message account system (CAMA) or local automatic message account system (LAMA) (col. 2 lines 12-18), the method comprising: receiving caller identity information at an exchange of the network during a call set-up procedure between a calling device and the exchange (inherent, as the End Office (LAMA) receives and stores the calling party number, the called party number, date, time and call rate, as taught in prior art, fig. 1 and col. 3 lines 42-55), and storing the information (call routing set up) at least temporarily at the exchange (before upstream transmission) (col. 2 lines 52-63 and col. 3 lines 45-55); sending an incoming call alert message to a called device (col. 6 lines 10-21); in direct response to receipt of a call answer message (col. 5 line 50 through col. 6 line 5 and col. 6 lines 21-28) and updating billing data within a written automatic accounting record for the call (col. 5 line 50 through col. 6 line 5). Rainey et al. further discloses a fixed access Network (fig. 2) in which telephone device is coupled to the exchange via land lines (fig.2). Rainey et al. differs from claim 1 of the present invention in that it does not explicit disclose prior to receiving an incoming call answer message at

Art Unit: 2683

the exchange outputting from the exchange to said data storage system a partial call data record containing less call information than a normal call data record. Chapman et al. teaches prior for a terminating call to reach a terminating telephone (fig. 1 number 106) a partial call data record is placed in a local store containing less call data than a complete connection call data record (col. 2 line 22 through col. 3 line 21). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Rainey et al. with prior to receiving an incoming call answer message at the exchange outputting from the exchange to said data storage system a partial call data record containing less call information than a normal call data record in order for the central automatic message account system (CAMA) or local automatic message account system (LAMA) to track the progress of the call between originating end switching office (EO) and terminating end switching office (EO) when they are not cooperatively linked and to provide the calling party an accurate billing record consistence with the usage of the network, as taught by Chapman et al..

Regarding claim 6, Rainey et al. discloses an apparatus (figs. 2 and 3) for providing information relating (billing

Art Unit: 2683

details) to a telecommunication call in a telecommunication network to a data storage system (local automatic message accounting or LAMA) (col. 4 lines 28-34), the apparatus comprising: first receiving means for receiving caller identity information at an exchange of the network during a call set-up procedure between a calling device and the exchange (inherent, as the End Office (LAMA) receives and stores the calling party number, the called party number, date, time and call rate, as taught in prior art, fig. 1 and col. 3 lines 42-55), and storing the information at least temporary at the exchange (inherent, the caller information, day, time, and called information is stored and sent downstream to a billing system for calculation, as taught in col. 2 lines 52-53 and col. 3 lines 45-55), transmitting means (9) (an ISUP message follows the switch node chain) (fig. 3 ISUP MSG'S) for transmitting an incoming call alert message to a called device (col. 5 lines 40-56); second receiving means for receiving (answer message sent back to the originating switch node) (fig. 3 and col. lines 63-65), in the event that the called device answers or otherwise accepts the incoming call alert (col. 5 lines 60-65), a call answer message sent to the exchange (originating switch) (col. 5 lines 60-65); a response to receipt of said call answer message, from the exchange to said data storage system (col. 5 lines 66-67 and col.

6 lines 1-5), a Call Data Record (automatic message account record) containing at least the received information to properly bill the call in a downstream process (col. 6 lines 1-5). Rainey et al. further discloses said first receiving (col. 3 lines 42-55) and second receiving means (receiving an ANM, col. 5 lines 63-65), said transmitting means (transmitting an ISUP MSG'S and col. 5 lines 40-65) are provided as an integral part of the network exchange (fig. 3). Rainey et al. differs from claim 6 of the present invention in that it does not explicit disclose output means prior to receiving an incoming call answer message at the exchange outputting from the exchange to said data storage system a partial call data record containing less call information than a normal call data record. Chapman et al. teaches a terminating site (fig. 3 number 312) prior for a terminating call to reach a terminating telephone (fig. 1 number 106) a partial call data record is placed in a local store containing less call data than a complete connection call data record (col. 2 line 22 through col. 3 line 21). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Rainey et al. with output means prior to receiving an incoming call answer message at the exchange outputting from the exchange to said data storage system a partial call data record containing less call

Art Unit: 2683

information than a normal call data record in order for the central automatic message account system (CAMA) or local automatic message account system (LAMA) to track the progress of the call between originating end switching office (EO) and terminating end switching office (EO) when they are not cooperatively linked and to provide the calling party an accurate billing record consistence with the usage of the network, as taught by Chapman et al..

Regarding claim 9, Rainey et al. discloses a telecommunication network (figs. 2 and 3) having a plurality of interconnected exchanges (End Offices) (EO-3 to EO4) for routing calls in the network (col. 2 lines 12-27), and a billing system (billing nodes) coupled to each of said exchanges (col. 5 lines 33-36), each exchange comprising: first receiving means for receiving caller identity information at an exchange of the network during a call set-up procedure between a calling device and the exchange (inherent, as the End Office (LAMA) receives and stores the calling party number, the called party number, date, time and call rate which sent through different exchanges to a billing system node for calculation, as taught in prior art, fig. 1 and col. 3 lines 42-55 and col. 5 lines 40-55), and storing the information at least temporary at the exchange (inherent, the caller information, day, time, and called information is stored

and sent downstream to a billing system or through each exchange to a billing system for calculation, as taught in col. 2 lines 52-53, col. 3 lines 45-55 and col. 5 lines 40-55), transmitting means (9) (an ISUP message follows the switch node chain) (fig. 3 ISUP MSG'S) for transmitting an incoming call alert message to a called device (col. 5 lines 40-56), second receiving means for receiving (answer message sent back to the originating switch node) (fig. 3 and col. lines 63-65), in the event that the called device answers or otherwise accepts the incoming call alert (col. 5 lines 60-65), a call answer message sent to the exchange (originating switch) (col. 5 lines 60-65); a response to receipt of said call answer message, from the exchange to said data storage system (col. 5 lines 66-67 and col. 6 lines 1-5), a Call Data Record (automatic message account record) containing at least the received information to properly bill the call in a downstream process (col. 6 lines 1-5). Rainey et al. differs from claim 9 of the present invention in that it does not explicit disclose output means prior to receiving an incoming call answer message at the exchange outputting from the exchange to said data storage system a partial call data record containing less call information than a normal call data record. Chapman et al. teaches a terminating site (fig. 3 number 312) prior for a terminating call to reach a terminating telephone

(fig. 1 number 106) a partial call data record is placed in a local store containing less call data than a complete connection call data record (col. 2 line 22 through col. 3 line 21). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Rainey et al. with output means prior to receiving an incoming call answer message at the exchange outputting from the exchange to said data storage system a partial call data record containing less call information than a normal call data record in order for the central automatic message account system (CAMA) or local automatic message account system (LAMA) to track the progress of the call between originating end switching office (EO) and terminating end switching office (EO) when they are not cooperatively linked and to provide the calling party an accurate billing record consistence with the usage of the network, as taught by Chapman et al..

5. Claims 2 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rainey et al. in view of Chapman et al. as applied to claims 1 and 6 above and in further view of Amin et al..

Regarding claim 2, the combination of Rainey et al. and Chapman et al. differs from claim 2 of the present invention in

that they do not disclose a cellular radio telephone network and the call is made from a cellular radio telephone device. Amin et al. teaches a cellular radiotelephone network (fig.1) and the call is made from a cellular radiotelephone device (fig. 1 number 10). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Rainey et al. and Chapman et al. with a cellular radio telephone network and the call is made from a cellular radio telephone device in order to provide wireless telephone switching, wireless tracking, and to monitor the cellular radio telephone device wireless usage for billing when communicating with a land line telephone, as taught by Amin et al..

Regarding claim 8, the combination of Rainey et al. and Chapman et al. differs from claim 8 of the present invention in that they do not disclose a cellular radio telephone network and said exchange being a Mobile Switching Centre (MSC) of the cellular network. Amin et al. teaches a cellular radio telephone network (fig. 1) and said exchange being a Mobile Switching Centre (MSC) of the cellular network (fig. 1 number 30). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Rainey et al. and Chapman et al. with a cellular radio telephone

network and said exchange being a Mobile Switching Centre (MSC) of the cellular network in order to provide wireless switching and tracking within a wireless telephone system, and for coordinating billing reports for wireless telephone service between a wireless subscriber and wire line subscriber, as taught by Amin et al..

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rainey et al. in view of Chapman et al. and Amin et al. as applied to claims 1 and 2 above and in further view of Plush et al., and Vaziri et al..

Regarding claim 3, the combination of Rainey et al., Chapman et al. and Amin et al. differs from claim 3 of the present invention in that they do not disclose a GSM network and said exchange from which the Call Data Record is output is a Mobile Switching Center, and outputting from the Mobile Switching Center a partial call data record comprising a subscriber telephone number. Plush et al. teaches a GSM network (fig. 1 and col. 3 lines 32-34) and said exchange from which the Call Data Record is output is a Mobile Switching Center (col. 3 lines 47-61 and fig. 2 numbers 2 and 16), and outputting from the Mobile Switching Center at least one of an IMSI code (col. 3 lines 63-67). Vaziri et al. teaches an internet switch box

(server) that generates a partial billing record which contains a telephone number (paragraph 0158). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Rainey et al., Chapman et al. and Amin et al. with a GSM network and said exchange from which the Call Data Record is output is a Mobile Switching Center, and outputting from the Mobile Switching Center a partial call data record comprising a subscriber telephone number in order to bill a mobile subscriber within a specific air interface/system through a wireless mobile switch which a bill is partially produced in route to the terminating end switching office to form a complete bill for the caller, as taught by Plush et al..

7. Claim is 4 rejected under 35 U.S.C. 103(a) as being unpatentable over Rainey et al. in view of Chapman et al., newly recited reference as applied to claim 1 above and in further view of Bushnell.

Regarding claim 4, the combination of Rainey et al. and Chapman et al. differs from claim 4 of the claimed invention in that it does not disclose outputting from the exchange the callers telephone number (A number). Bushnell teaches outputting from the switch the callers telephone number (col. 5

lines 35-55). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the combination of Rainey et al. and Chapman et al. with outputting from the exchange the callers telephone number (A number) in order to identify and properly bill the calling party who is making the call, as taught by Bushnell.

8. Claims 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rainey et al. in view of Chapman et al., newly recited reference, as applied to claims 1 and 6 above and in further view of Buscher et al. and Vaziri et al., newly recited reference.

Regarding claims 5 and 7, the combination of Rainey et al. and Chapman et al. differs from claims 5 and 7 of the claimed invention in that they do not explicit disclose outputting said call record to an external billing system (data storage system) and said partial call data record consist of the called party number. Buscher et al. teaches outputting said call record to an external billing system (data storage system) (fig. 1 numbers 50 and 260 and col. 2 lines 55-67 and col. 3 lines 1-7). Vaziri et al. teaches an internet switch box (server) that generates a partial billing record which contains a telephone number of the

other party (paragraph 0158). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the combination of Rainey et al. and Chapman et al. with outputting said call record to an external billing system (data storage system) and said partial call data record consist of the called party number in order to reduce accounting duties within the End switching Office, and bill the calling party from the automatic message accounting record received from the originating End switching Office to form a partial telephone bill for that End switching Office, as taught by Buscher et al. and Vaziri et al., newly recited reference.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (571) 272-7865. The examiner can normally be reached on 6:30am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Keith Ferguson
Art Unit 2683
October 31, 2005

KEITH FERGUSON
PRIMARY EXAMINER
